

In-Dash 7" Widescreen Color LCD Monitor/DVD Receiver Moniteur vidéo couleur grand-écran à écran à cristaux liquides de 7 pouces/récepteur DVD intégrés en tableau de bord Monitor LCD en color de pantalla panorámica de 7"/receptor y DVD empotrado en el tablero de instrumentos

Model: CQ-VD7005U

Operating Instructions Manuel d'instructions Manual de Instrucciones







- Please read these instructions (including "Limited Warranty" and "Customer Services Directory") carefully before using this product and keep this manual for future reference.
- Prière de lire attentivement ces instructions (y compris la "Garantie limitée" et le "Répertoire des services à la clientèle") avant d'utiliser ce produit et conserver ce manuel d'utilisation pour s'y référer ultérieurement.
- Lea estas instrucciones cuidadosamente antes de usar este producto y guarde este manual para usar como referencia futura.

Safety Information

Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.



This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.

A Warning

Observe the following warnings when using this unit.

The driver should neither watch the display nor operate the system while driving.

Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

 \Box Use the proper power supply.

This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

Keep batteries and insulation film out of reach of infants.

Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical attention.

- Protect the Deck Mechanism. Do not insert any foreign objects into the slot of this unit.
- Do not disassemble or modify the unit. Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Servicenter.
- Do not use the unit when it is out of order. If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.
- The remote control unit should not lie about in the car.

If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.

Refer fuse replacement to qualified service personnel.

When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product. This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.



This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

Observe the following warnings when installing.

Disconnect the lead from the negative (-) battery terminal before installation.

Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.

Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection. FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHI-CLE AND PERSONAL INJURY OR DEATH.

- Never use safety-related components for installation, grounding, and other such functions. Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.
- Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.
- Check for piping, gasoline tank, electric wiring, and other items before installing the product. If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.
- Never install the product in a location where it interferes with your field of vision.
- Never have the power cord branched to supply other equipment with power.
- After installation and wiring, you should check the normal operation of other electrical equipment. The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.
- In the case of installation to an airbag equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.
- Make sure the leads do not interfere with driving or getting in and out of the vehicle.
- Insulate all exposed wires to prevent short circuiting.

A Caution

Observe the following cautions when using this unit.

\Box Keep the sound volume at an appropriate level.

Keep the volume level low enough to be aware of road and traffic conditions while driving.

Do not insert or allow your hand or fingers to be caught in the unit.

To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

- This unit is designed for use exclusively in automobiles.
- Do not operate the unit for a prolonged period with the engine turned off.

Operating the audio system for a long period of time with the engine turned off will drain the battery.

Do not expose the unit to direct sunlight or excessive heat.

Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.

Do not use the product where it will be exposed to water, moisture, or dust.

Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

Observe the following cautions when installing.

Refer wiring and installation to qualified service personnel.

Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.

Follow the instructions to install and wire the product.

Not following the instructions to properly install and wire the product could cause an accident or fire.

\Box Take care not to damage the leads.

When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

□ Use the designated parts and tools for installation. Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

Do not block the air vent or the cooling plate of the unit.

Blocking these parts will cause the interior of the unit to overheat and will result in fire or other damage.

Do not install the product where it is exposed to strong vibrations or is unstable.

Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.

Installation Angle

The product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.

- Wear gloves for safety. Make sure that wiring is completed before installation.
- To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.
- Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

Observe the following cautions when handling the battery for the remote control unit.

- Use only specified battery (CR2025).
- Match the polarity of the battery with the (+) and (-) marks in the battery case.
- Replace a dead battery as soon as possible.
- Remove the battery from the remote control unit when not using it for an extended period of time.
- Insulate the battery (by placing them in a plastic bag or covering them with vinyl tape) before disposal or storage.
- Dispose of the battery according to the local regulations.
- Do not disassemble, recharge, heat or short the battery. Do not throw a battery into a fire or water.

In case of battery leakage

- Thoroughly wipe the battery liquid off the battery case and insert new battery.
- If any part of your body or clothing comes into contact with battery liquid, wash it with plenty of water.
- If battery liquid comes into contact with your eyes, wash them with plenty of water and get immediate medical attention.

A CAUTION:

• PLEASE FOLLOW THE LAWS AND REGULATIONS OF YOUR STATE, PROVINCE OR COUNTRY FOR WIRING, INSTALLATION, AND USE OF THIS UNIT AND THE DEVICES TO BE CONNECTED.

Safety Information (continued)

THIS PRODUCT IS A CLASS I LASER PRODUCT. **USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN** MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR BY YOUR-SELF. REFER SERVICING TO QUALIFIED PERSONNEL.

The following applies only in the U.S.A.

Part 15 of the FCC Rules

FCC Warning:

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

NOTICE:

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org.>

Notice

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.



This system is designed so that you cannot see moving pictures while you are driving.

- Park your car in a safe place and pull the side brake (parking brake) lever before watching the monitor.
- A rear monitor (option) displays moving pictures while driving.

Note:

• Be sure to connect the side brake (parking brake) connection lead. (
Installation Instructions)

Notes on Use

Liquid Crystal Panel

- Do not cause impact to the liquid crystal panel.
- Usage temperature range: 0 °C to 40 °C

{32 °F to 104 °F} When the temperature is very cold or very hot, the image may not appear clearly or may move slowly. Also, movement of the image may seem to be out of synchronization or the image quality may decline in such environments. Note that this is not a malfunction or problem.

- In order to protect the liquid crystal panel, keep it out of direct sunlight while the unit is not in use.
- Sudden changes in the temperature inside the car such as those which occur immediately after the car's air conditioner or heater has been turned on may cause the inside of the liquid crystal panel to cloud over due to water vapor or it may cause condensation (droplets of water) to form and, as a result, the panel may not work properly. Do not use the unit while these symptoms are in evidence but leave the unit standing for about and hour, and then resume or start use.

English



	1. Main Unit (LCD monitor/DVD player)	Qty.: 1
	2. Remote Control Unit <eur7641060> (includes a battery: CR2025)</eur7641060>	Qty.: 1
S	3. Wiping Cloth <yefx9991793></yefx9991793>	Qty.: 1
	4. Operating Instructions <yfm284c671ca></yfm284c671ca>	Qty.: 1
	5. System Upgrade Guidebook <yfm284c672ca></yfm284c672ca>	Qty.: 1
	6. Installation Instructions <yfm294c097ca></yfm294c097ca>	Qty.: 1

 Installation Hardware (screws, cords, etc.)
 (⇒ Installation Instructions)

Note:

- The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.

Customer Services Directory

U.S.A.

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests

by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases:

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday-

Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032 (We accept Visa, MasterCard, Discover Card, American Express,

and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc. Panasonic Sales Company Factory Servicenter: Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787) 750-4300, Fax (787) 768-2910

CANADA

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact: Our Customer Care Centre:

Telephone #: 1-800 #:	(905) 624-5505 1-800-561-5505
Fax #:	(905) 238-2360
Email link:	"Contact Us" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:

Link : "Servicentres™ locator" under "Customer support"

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

Limited Warranty

U.S.A.

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA One Panasonic Way, Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF PANASONIC PUERTO RICO, INC. Ave. 65 de infanteria, Km. 9.5, San Gabriel Industrial Park Carolina, Puerto Rico 00985

PANASONIC AUTO PRODUCTS LIMITED WARRANTY

LIMITED WARRANTY COVERAGE

If your product does not work properly because of defects in materials and workmanship.

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

Categories	Parts	Labor
Audio Components (except items listed below)	One (1) Year	One (1) Year
MXE Series Audio Components (except items listed below)	Two (2) Years	Two (2) Years
Speakers Defective Car Audio Speakers under war- ranty must be exchanged at the place of purchase. Contact your Dealer for details.	One (1) Year	Not Applicable
Accessories (in exchange for defective items)	Ninety (90) Days	Not Applicable

During the "Labor" warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry in or mail in your product prepaid during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

CARRY-IN OR MAIL-IN SERVICE

For Carry-In or Mail-In Service in the United States, call 1-800-211-PANA (7262) or visit

Panasonic Web Site: http://www.panasonic.com

For assistance in Puerto Rico, call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

LIMITED WARRANTY LIMITS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials and workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred during shipment, failures which are caused by products not supplied by the warrantor, failures which result from accident, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustment, maladjustment of consumer control, improper maintenance, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of the product, or service by anyone other than the technician from Factory Servicenter or other authorized service centers, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIM-ITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRAN-TY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, and loss of media, data or other memory contents. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to warrantor's Consumer Affairs Department at the addresses of the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WAR-Ranty are your responsibility.

Customer's Record Model No. Serial No. Dealer's No. Code No. Dealer's Address Date of Purchase

CANADA

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga Ontario L4W 2T3

PANASONIC PRODUCT LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in materials and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

CAR AUDIO PRODUCT - ONE (1) YEAR, PARTS AND LABOUR

(The labour to install or remove the product is not warranted) ACCESSORIES - NINETY (90) DAYS, (IN EXCHANGE FOR DEFECTIVE ITEMS)

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of the original purchase date is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WAR-RANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPE-CIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

Features

Panasonic welcomes you to our constantly growing family of electronic products owners.

We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Please refer to the separate "System Upgrade Guidebook" for how to operate this unit when optional devices are connected.

- No device is connected to this unit. → Basic operations are covered only by this book.
- Optional devices are connected to this unit. → Refer to the "System Upgrade Guidebook" in addition.

Simultaneous Multi-Device Connection (with Expansion Module (hub unit))

You can connect the optional Expansion Module (hub unit) (CY-EM100U). Connection of the Expansion Module allows you to simultaneously connect optional devices mentioned before as well as other AV devices. For details, refer to the operating instructions for the Expansion Module.

Connectable devices

- CD/DVD changer (max. 1)
- iPod® (max. 2)
- iPod with Video (max. 1)
- XM Satellite Radio (max. 1)
- Sirius Satellite Radio (max. 1)
- Hands-Free Phone System (max. 1)
- TV tuner (max. 1)

Note:

- Market conditions regarding optional devices vary with countries and regions. For further information, consult your dealer.
- If a non-Panasonic product is connected to this unit, we do not guarantee the operations of the product.
- If iPod with Video is connected, no more iPod can be connected.

Integration of the monitor, FM/AM radio, DVD Video/Video CD player and CD/MP3/WMA player

Built-in AV Input/Output Terminals For more convenient connection and setup, all terminals are now provided on the unit itself.

Built-in Dolby Digital decoder, DTS decoder You can enjoy a powerful 5.1 channel surround system by connecting optional center speaker, power amplifier and sub-woofer.

📕 Built-in DSP

7 bands graphic equalizer. (> page 34)

GUI (Graphic User Interface)

GUI displays various indications with colorful symbols to enhance visibility, enjoyment, and operability.

CS Auto (Circle Surround Automotive)

CS Auto allows your car interior to change to a splendid audio room in a moment. Every speaker can be fine-tuned. (→ page 35)

is a trademark of SRS Labs, Inc.

CS Auto technology is incorporated under license from SRS Labs, Inc.

Note:

 If you enable CS Auto, the following functions are automatically disabled:

GRAPHIC-EQ, CROSS OVER, DOWN MIX, MULTI-CH (→ page 34-39)

Touch Panel Operation

Simply touch the screen lightly to operate virtually all functions. Easy-to-use menus and icons let you "touch and choose" what you want, so you can start using your system from the very first day. That also means that while you drive, you can concentrate on the road.

DVD-R, DVD-RW Playback

(⇒ pagé 18, 48 for details)

📕 ID code

4-digit ID code for increased security.

Fill in the ID code memo (\Rightarrow page 46).

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Preparation

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First Time Power On

The speaker setup screen appears after the opening display when the power is turned on for the first time. Perform speaker setup according to the car conditions in which this unit is installed. (SP SETUP) → page 36)

Other Settings

Please refer to the separate "System Upgrade Guidebook" for how to operate this unit when optional devices are connected.

USER (user settings)(→ page 32)

display unit, **clock**, ID code, memory clear, other

SCREEN (screen settings)(→ page 34)

dimmer, picture

AUDIO (audio settings)(→ page 34)

sound setup, graphic equalizer, CS Auto, speaker setup, speaker level, time alignment, source level, cross over

DVD (DVD settings)(→ page 38)

language, display, pro logic, down mix, dynamic range compression, multiple channel

[INPUT/OUTPUT] (AV-IN/OUT settings)(→ page 39) source skip

RADIO (radio settings)(→ page 40)

FM set up, AM set up

Note:

 Refer to "Settings" (→ page 30) for further information about operations, settings, and others of the menu screen.

You may need to set the following depending on the devices to be connected.

Subwoofer

● Execute SP LEVEL (speaker level). (→ page 36)

AV1/AV2 (Camcorder, VCR, etc.)

• Adjust SOURCE LEVEL (AV1/AV2 input level).

(**>** page 37)

🛕 Warning

 When you connect external devices to AV1-IN/ AV2-IN (AV1/AV2), be sure to connect the side brake connection lead (Installation Instructions).

Remote Control Unit

Before Initial Use

Pull the insulation film out from the backside of the remote control gently.



Battery Replacement

- Remove the battery holder with the remote control unit placed on a flat surface.
 - ① Stick your thumbnail into the groove and push the holder in the direction of the arrow at the same time.
 - ② Pull it out in the direction of the arrow using a tough pointed object.



Put a battery in the case with (+)-side facing up.
Put the case back.



A Warning

• Keep batteries away from children to avoid the risk of accidents. If an infant ingests a battery, please seek immediate medical attention.

\triangle Caution

- Remove and dispose of an old battery immediately.
- Do not disassemble, heat or short a battery. Do not throw a battery into a fire or water.
- Follow local regulations when disposing of a battery.
- Improper use of a battery may cause overheating, an explosion or ignition, resulting in injury or a fire.

Note:

• Battery Information:

Battery Type: Panasonic lithium battery (CR2025) Battery Life: Approximately 6 months under normal use (at room temperature)

Notice

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Symbols used in this manual

Pictographs

You can perform some operations of this unit in one or more methods with the touch panel or remote control. This book explains such operations in tabular form as follows. Refer to the following for the pictographs located in the upper part of each table.



Compatible types of disc

The discs compatible with the targeted operation.



Operation on the Touch Panel

You can use the touch panel to perform the targeted operation. If the operation is not executable with the touch panel, "—" is displayed.



Operation on the Remote Control Unit

You can use the remote control to perform the targeted operation. If the operation is not executable with the remote control, "—" is displayed.



Operation on the Main Unit

You can use the Main Unit to perform the targeted operation. If the operation is not executable with the Main Unit, "—" is displayed.

Disc Marks

The following pictographs are used for the descriptions of disc operation. (\Rightarrow page 19-23)

DVD : DVD

VCD : VCD (Video CD)

CD : CD

MP3 : CD-R/RWs containing MP3 files

WMA: CD-R/RWs containing WMA files

Name of Controls and Functions



Note:

• [ASP], [MENU], []], [OPEN], [TILT] are available only on the main unit.

: This book refers to connections to the Panasonic car navigation system that will come onto the market in the future. Descriptions regarding the car navigation system are boxed with a dotted line.

[ASP] (ASPECT) (P•MODE)	 Selects the aspect ratio. Activates/inactivates the private mode. 	❸ [∧] [∨] (DISC)	 Selects a folder or a disc. Selects (vertically) or adjusts an operation or item.
 [VOL] [MUTE] [SRC] (PWR) 	 Adjusts the sound volume. Mutes the sound temporarily. Switches on/off the power. Changes the modes such as sound and 	[<] [>] (TUNE/TRACK)	 Selects or searches for a track, file, station. Selects or searches for a channel. Selects (horizontally) or adjusts an operation or item.
6 [MENU]	picture. • Shows the menu screen. • Switches navigation mode on and off. (available in the future)	[ENTER]	 Selects a band. Shows OSD. Searches for broadcast stations and memorizes them automatically. Determines an operation or item.
● [▲]	 Ejects/reloads a disc. Note: A disc is in the slot when this is illuminated in blue. 	 [OPEN] (CLOSE) [TILT] 	 Opens/closes the monitor. Adjusts the monitor position. Tilts the monitor forward temporarily.

Remote Control

Aim the remote control at the remote control sensor of the main unit and operate it.



Note: • [ENT], [RET], [■], [▶], [▶], are available only on the remote control unit.

● [SRC] (PWR)	 Switches the power on/off. Changes the modes such as sound and picture. 	⑤ [+] [–] (VOL)	• Adjusts the sound volume.
❷ [■] [11]	Stops playback.Pause	6 [<] [>]	 Selects or searches for a track, file, station. Selects (horizontally) or adjusts an operation or item.
[▶]	• Playback	[\][\]	• Selects (vertically) or adjusts an operation or item.
[◀◀] [▶▶]	 Goes to beginning. Fast forward/fast reverse. Slow playback ([▶▶]). 	[ENT] (ENTER/ BAND)	 Selects a band. Shows OSD. Searches for broadcast stations and
[RET] (RETURN)	 Returns to the previous display. Inputs the number again. Displays the VCD's menu 	DAND	memorizes them automatically. • Determines an operation or item.
(MUTE)	• Mutes the sound temporarily.	[::::] (TOP MENU/ DVD MENU)	 Displays the DVD/title menu. (Operations vary according to the media.)

Touch Panel Operation Overview

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Notes on the Touch Panel

Before operation

• Clean the surface of the touch panel. (\Rightarrow page 47) Operation

- Use only your fingers to operate the touch panel.
- Do not press the panel forcefully.
- Do not scratch the panel with fingernails or any hard objects.
- Do not use a pen or other sharp implements to operate the touch panel.
- Do not bump the front panel. ➡ Failure to observe the above may damage or break the glass on the surface of the touch panel.

The State of Operation Screen

Example: DVD mode

Note:

- The following picture is partly darkened for explanation.
- Displaying contents and their positions partly vary with each mode. Refer to the description of each mode for details.



Displays the Source Selection Screen.



Source Selection Screen appears. Touch desired source button. Touch **I INCL** to quit.



Press [SRC] to change to desired mode.

Note:

• The screen above appears when no external device is connected to AV1, AV2, and the Expansion Module (CY-EM100U, option).

Displays the Menu Screen.

Menu Screen				
USER	MAVE SETUP			
SCREEN	CAMERA SETUP			
AUD10	SQURCE SKIP			
DVD	INPUT SELECT			
aracterine	OUTPUT SELECT			
RADIO	H-P SETUP			

Menu Screen appears. Select desired setting. Menu Setting, $(\Rightarrow page 30)$

Press [MENU] to let Menu • Screen appear.

Switching the Display

Please refer to the separate "System Upgrade Guidebook" for how to operate this unit when optional devices are connected.

Touching allows users to switch between screens as follows.

\Box How to Call up Operation Screen



□ How to Cancel OSD (On Screen Display)



*1 To switch Operation Screen ON, touch the center of touch panel or press [ENTER].

*² The operation screen is not available in the video mode.

Note:

• Refer to the description of each mode for how to operate the operation screen.

Showing the hidden part of the screen.

Some items have continued parts. You can see the continued parts by pressing **will** or **user**.

DVD mode



General



Preparation: Turn your car's ignition key to the ACC or ON position.

General Operation	S				
Operations		•••	• • • •		
Power ON :	-	[SRC]	[SRC]	Note: ● You cannot turn on the	power via the
Power OFF :	-			remote control when \boxed{P} OFF. (\Rightarrow ACC SELECT	ICC SELECT is set to , page 33)
Display Open/Close	-	_	[OPEN]	• Press once to open. Pre	ess again to close.
	Note: • When the • If the unit • Opening/e	display is op stops halfwa closing the dis	ened or closed, a y, press [OPEN splay can be don	loud beep sounds three tir] again to draw it all the wa e when the power is off.	nes. y out.
Source selection	(→ page 14)	[SRC] [SRC]			
			RADIO	O (AM/FM)	(→ page 26)
		DV	D (DVD/VCD (Vi	deo CD)/CD/MP3/WMA)	(→ page 20)
			AV	1/AV2	(→ page 28)
				•] () []]]]]]]]]]]]]]]]]]
		E .	Sources co kpansion Mod	nnected to the ule (CY-EM100U) *1	(➡ System Upgrade Guidebook)
		 *1 When the Expansion Module (CY-EM100U, option) is connected. (→ System Upgrade Guidebook) 			
		Note: ● If the to sk	ere is no external kip. (→ page 39)	sources connected, AV1/A	V2 mode can be set

······ Touch/Press and hold for more than 2 seconds

[SRC] (PWR: power)



General Operations (continued)						
Operations			• • • •			
Volume Note: • The sound level for each source is stored in memory.	-	❶ [+] ❷ [−]		UpDown		
		 Setting Range: - 82 dB to 0 dB, default: - 40 dB Note: The volume level can be set independently for each source and each disc format. 				
Mute	-	[MUTE]	[MUTE]	Mutes the sound. To cancel, press again.		
Tilt Angle	-	-	([TILT])	Press and hold for more than 2 seconds.		
	C or D	[<] or [>]	[<] or [>]	Press to adjust. Setup is the same as from MENU. Refer to DISPLAY UNIT for details. (-> page 32)		
	Warning Do not touch the unit while the display is moving. Inserting hands, fingers or foreign objects into the unit can cause injuries and damage to the unit.					
	Note: • Vertical and is automa • After adju • The car madjustment	ngle (TILT) is sav tically set at the sting its angle, a rodel and installa nt of the monitor	red in the memor angle and in the p djust the brightne tion conditions n 's angle.	y, so when the display is drawn out next, it position adjusted before. ess as well. (→ page 34) nay impose some restrictions on the		
Folding Down the Display	– Note:	-	[ΤΙLΤ]	To raise the display, press again.		
Temporarily	• Even when the unit power is off, you can fold down the display temporarily.					
	 Caution Avoid physical shock to the monitor. Do not place any object on the display, or subject it to undue force. Do not move the display forcibly. The monitor movable range may be limited by the type of car, the position w the display is mounted, etc. 					

English

Before Disc Playback



Disc Type

DISC	DVD	VCD (Video CD)	CD	CD-R/RW
Mark/logo				
Disc Size	12 cm {5″}			
Video Format	NTSC	C/PAL		
Audio Format	LPCM, MPEG1, MPEG2, dts, Dolby Digital	LPCM, MPEG1	LPCM (CD-DA), dts	LPCM (CD-DA), MP3/ WMA
Region No.	1 (ALL)			

Note:

- About CD-Rs/RWs and DVD-Rs/RWs, refer to "Notes on CD-Rs/RWs and DVD-Rs/RWs". (\Rightarrow page 48)
- Some copy-protected music CDs are not playable.

Notes on DVD-Rs/RWs

- Only video formatted discs are playable. Discs in the video recording (VR) format are unplayable.
- Unfinalized discs are unplayable.
- Some discs are unplayable depending on the disc itself, device, drive and software that are used for disc recording.

Discs not supported

The following discs are not played back on this product.

- DVD-Audio DVD+R
- DVD-ROM DVD+RW
- SVCD
- VSD
- CD-G CD-ROM (except MP3/WMA)
- CD-RW (except MP3/WMA and CD-DA)
- CD-R (except MP3/WMA and CD-DA)
- SACD Photo CD CDV
- Hybrid SACD (except CD-DA)
- Divx Video Discs
- CD-EXTRA (audio-only playback possible)
- DVDs with a region number other than "1" or "ALL"
- Playing back a photo CD disc with this unit could damage the data that is recorded on the disc.

Symbols used on jackets

(Examples of such symbols include)

- : Number of subtitle languages
- : Number of audio tracks
- : Number of angles

The numbers indicate the number of languages, tracks, angles, etc., recorded on the disc.

Screen size (H:V aspect ratio)

- : 4:3 standard size 4:3
- LB : Letterbox (\rightarrow page 38)

16:9 wide size



16:9 PS

format on a standard screen (4:3). : Playback in PAN & SCAN (pan and

scan) (> page 38) format on a standard screen (4:3).

Note:

• The size of the image that is displayed on the screen depends on the screen mode ("Aspect Ratio" \rightarrow page 40), and on the screen size for the content on the disc.

Region Management Information

This product is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this product, this product does not play the disc.

The Region number for this product is "1" and "ALL".



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DVD-RAM

CVD



\land Caution

• When the disc is inserted or ejected, to prevent disc scratches never exert any downward force on the disc.

Disc Insert DVD VCD CD MP3 WMA

 The mode that supports the disc is selected, and playback starts.

- DVD VCD.

- The audio format is automatically identified.
 (⇒ page 18)
- When the menu screen appears, see "Chapter/title Selection" on page 22.

When a disc is in the player, change to disc player mode (CD, MP3, WMA, DVD or VCD (Video CD)) and playback starts.

Note:

- Do not insert a disc when the eject button (a) lights because a disc is already loaded.
- The power will be turned on automatically when a disc is loaded.
- You can play a disc even if the monitor is closed.

- DVD VCD

• The sound may be interrupted for a few moments while the audio format is being identified.

\land Caution

- Do not use irregularly shaped discs.
- Do not insert foreign object into the disc slot.

When a disc is in the player...



Do not insert a disc when the eject button (a) lights because a disc is already loaded.

Disc Eject DVD VCD CD MP3 WMA

Press [**△**] to stop playback and eject the disc. (Press [**△**] again to reload the disc.)

Note:

• If you leave a disc in the slot for more than 30 seconds after its ejection, the disc will be automatically reloaded after a loud beep is heard three times.

DVD VCD

- Due to limitations of certain discs, some DVD and VCD (Video CD) discs may not operate as described in this manual. Refer to the disc jacket for further details.
- This unit does not support DVD and VCD (Video CD) karaoke functions.

Disc Player

DVD mode display

Source Button

Operation Buttons

07 6888 DL 23:40



Playing time

VCD (Video CD) mode display

[SRC]

[ENTER]

[<][>] $[\Lambda][V]$

#07 6885 D

DV



Operation Buttons



Basic Operations						
				Operation	S	Eng
Operations	Compatible Discs			• • • • •		
	DVD VOD					20
Track/file Selection	UNU VCU		[▶▶]	[>]	Next track/file	
	MP3 WMA	1-1-4	[◄◀]	[<]	Beginning of the current track/file Previous track/file (Touch/press twice.)	
	DVD	Note: ● When pl the start	aying a DVD of a chapter	, there are ca that spans 2	ses where it is not possible to return to titles. (→ page 50)	-
Fast Forward/	DVD VCD		[▶▶]	[[>]]	Fast forward	
Fast Reverse	CD				Fast reverse	
	MP3' WMA	The encode			Release to resume playback.	
	DVD VCD	Regular sp	eed \rightarrow 1.5 tir	nes (DVD) —	►10 times (DVD) →20 times	
Folder Selection	MP3 WMA	Touch	[/]	[\]	Next folder	
		desired folder	[V]	[1]	Previous folder	
Title Scroll	CD MP3 WMA	SCROLL	-	-	Scrolls the title once	
Stop	DVD VCD	1	[]		To resume playback, touch/press	
	MP3 WMA	1	L 🔤 J	-	▶	
Pause	DVD VCD	_			To resume playback, touch/press	
	CD	. 11	[11]	-	again or touch/press [] / [].	
	MP3' WMA		>	>	• Touch/proce and hold in the pouse me	da
Slow Playback			([▶▶])	[[>]]	 Fouch/press and hold in the pause model Playback is at about 1/3 normal speed. 	ue.
	DVD VCD				To resume normal playback, touch/press	
		Note: ● Reverse	e slow plavba	ack is not po	ssible.	
Reneat Play	DVD VCD	1101010				
nopour i uy	CD	REP *	-	-	To cancel, touch again.	
	MP3 WMA					
Repeat Play within the Current Folder	MP3 WMA	REP.	-	-	To cancel, touch and hold for more than 2 seconds again.	
Scan Play	CD	SCAH	-	-	To cancel, touch again.	
Random Play	CD MP3 WMA	RANDOM *	-	-	To cancel, touch again.	
Random Play within the Current Folder	MP3 WMA	RANDON	_	-	To cancel, touch and hold again.	
Touch/Droop of	nd hold					

Contraction Contra

* Touch panel symbols will change to indicate these current mode. [FRAND], [FEIP] {F= FOLDER (folder)}

Disc Player (continued)

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To switch Operation Screen ON, touch the center of touch panel or press [ENTER].



Note:

- If no operation is performed for 8 seconds after you have touched **(1997)**, the operation buttons disappear.
- If the title/chapter number is inputted and no operation is performed for 2 seconds, playback will start from the number of the title/chapter entered.

*2 On-Screen Direct Operation (Only for DVD)

Some DVDs allow you to operate the DVD menu by touching the screen.

In such a case, if your targeted button is located too close to other buttons, a part of the screen may be enlarged in order that you can press the button for sure.



Note:

- When the current disc is not ready for the on-screen direct operation, perform operations with the buttons on the remote control or the unit.
- The on-screen direct operation of the DVD menu is not available in the DVD changer mode.

Showing Source button and Menu button Press 📴 . The Source button and Menu button appear.



Menu Button
 (⇒ page 14)

Moving operation buttons (Only for DVD) When the operation buttons interfere with operations, press [1016]. The buttons are transferred as shown below.





DVD mode display	REF Solution Ref Solution election fast reverse	VD menu		Return Audio Language/ Angle/ Subtitle Language
Useful Function			Ωne	rations
Operations	Compatible Discs			
Subtitle Language		SUB TITLE ()++ _	-	• Touch during playback.
	DVD	It is possible to change guages are recorded or Note: • There may be a brief	the subtitle l the disc. delay before	anguage during play if multiple lan-
Audio Language	DVD	AUDIO - It is possible to change guages are recorded or -	– the audio lar the disc.	• Touch during playback. nguage during play if multiple audio lan-
Angle	DDD	For DVDs which contain a number of different and these different angles d	– n scenes whi ngles the san uring play. (Touch during playback. ch have been shot simultaneously from ne scene can be viewed from each of ANGLE MARK → page 38)
Stereo & Monaural	VO	It is possible to switch (L or R).	- the audio bet ereo sound e left channel ht speakers. e right chann ht speakers.	ween stereo sound and monaural sound audio is output on both the left and el audio is output on both the left and

Note:

- If no operation is performed for 10 seconds or **(11)** is touched, the operation buttons disappear.
- It may not be possible to switch the language unless the unit is at the DVD menu (→ previous page) or is at the DVD settings. (→ page 38)
- The language on the DVD settings takes priority when the power is turned on or the disc is loaded.
- The number of languages and angles depend on the disc. Some discs have only one language/angle or have no language/angle.

English

Notes on MP3/WMA

What is MP3/WMA?

MP3^{*} (MPEG Audio Layer-3) and WMA (Windows Media[™] Audio) are the compression formats of digital audio. The former is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using these compression formats, you can record the contents of about 10 music CDs on a single CD (This figure refers to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz).

*MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Note:

• MP3/WMA encoding and CD writing software programs are not supplied with this unit.

Points to remember when making MP3/WMA files

Common

- High bit rate and high sampling frequency are recommended for high quality sound.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the instructions of your own encoding software and writing software.

MP3

 It is recommended to set the bit rate to "128 kbps or more" and "fixed".

WMA

- It is recommended to set the bit rate to "64 kbps or more" and "fixed".
- Do not set the copy protection on the WMA file to enable this unit to play back.

\land Caution

• Never assign the ".mp3", or ".wma" file name extension to a file that is not in the MP3/WMA format. This may not only produce noise from the speaker damage, but also damage your hearing.

Display Information

Displayed items

 CD-TEXT Disc title Track title

- MP3/WMA Folder name File name
- MP3 (ID3 tag) Album name Title and artist name
- WMA (WMA tag) Album name Title and artist name

Displayable characters

- Displayable length of file name/folder name: within 128 characters. (Unicoded file and folder names are reduced by half in the number of displayable characters.)
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
- ASCII character set and special characters in each language can be displayed.
- Some Cyrillic characters in the Unicode can be displayed.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols: (space) ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^_` { | }~

Note:

- With some software in which MP3/WMA format files have been encoded, the character information may not be displayed properly.
- Undisplayable characters and symbols will be converted into an asterisk (*).
- It is recommended that the length of the file name is less than 8 (excluding the file extension).





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Recording MP3/WMA files on a CD-media

- You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3/WMA files.
- If CD-DA files are on the same disc as MP3 or WMA files, the songs may not play in the intended order, or some songs may not play at all.
- When storing MP3 data and WMA data on the same disc, use different folders for each data.
- Do not record files other than MP3/WMA files and unnecessary folders on a disc.
- The name of an MP3/WMA file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
- The file extension ".mp3" or ".wma" should be assigned to each file depending on the file format.

- You may encounter trouble in playing MP3/WMA files or displaying the information of MP3/WMA files recorded with certain writing software or CD recorders.
- This unit does not have a play list function.
- Although Multi-session recording is supported, the use of Disc-at-Once is recommended.

Supported file systems

ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

Note:

 Apple HFS, UDF 1.50, Mix CD and CD Extra are not supported.

Compression formats (Recommendation: "Points to remember when making MP3/WMA files" on the previous page)

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32 k – 320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 k – 160 kbps	Yes	16, 22.05, 24 kHz
Windows Media Audio Ver. 2, 8, 9*	32 k – 192 kbps	Yes	32, 44.1, 48 kHz

* WMA 9 Professional/LossLess/Voice are not supported.

Folder selection order/file playback order

Maximum number of files/folders

- Maximum number of files: 511 (file and folders)
- Maximum number of files in one folder: 255
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Note:

- You can shorten the duration between data read and playback by decreasing the quantity of files or folders, or the depth of the hierarchy.
- This unit counts the number of folders irrespective of the presence or absence of an MP3/WMA file.
- If the selected folder does not contain any MP3/WMA files, the nearest MP3/WMA files in the order of playback will be played.
- Playback order may be different from other MP3/WMA players even if the same disc is used.
- "ROOT" appears when displaying the root folder name.

Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except for personal use.

No warranty

Above description complies with our investigations as of December 2006. It has no warranty for reproducibility and displayability of MP3/WMA.



Radio

English



Preset Memory		lish			
Manual Preset	Select a band and frequency.	Eng			
Memory Up to 6 stations can be preset in each band.	to blinks once	26			
	 Touch and hold for more than 2 seconds. The frequency blinks once, and a receiving station is saved in the memory. New stations overwrite existing saved stations. 				
Auto Preset Memory	Preparation: Select EACH. (→ page 40) MENU ⇔ RADIO ⇔ FM SETUP ⇔ AUTO PRESET ⇔ EACH / ALL				
Six stations are automatically preset in each band.	Select a band. (AUTOP) ([BAND]) ([ENTER]) 6 stations with first to 6th highest in signal strength of each band will be preset.				
	 Touch/press and hold for more than 2 seconds. Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning) New stations overwrite existing saved stations. 				
B [113] In total 18 FM stations are automatically preset.	Preparation: Select ALL. (-> page 40) MENU RADIO FM SETUP AUTO PRESET EACH ALL				
	Image: Multicipe Image: Multicipe<				
	 Touch/press and hold for more than 2 seconds. Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning) New stations overwrite existing saved stations. 				
Preset Station Calling	Select a band or a list.				
	Touch desired preset button.				
Preset Swap	Preparation: Select ALL. (→ page 40) MENU ⇒ RADIO ⇒ FM SETUP ⇒ AUTO PRESET ⇒ EACH / ALL				
A station preset is inter- changeable with another	Select the list and the preset number that contains the station to be interchanged (see "Preset station calling" above).				
station preset.	Select the list and hold down the preset number that contains the targeted channel for more than 2 seconds.				
	to – – – The preset station selected in the step 1 is interchanged with the targeted preset channel selected in the step 2 (Preset Swap).				

AV1/AV2

English

Please refer to the separate "System Upgrade Guidebook" for how to operate this unit when optional devices are connected.

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Preparation:

• Connect an optional external device to the AV1/AV2.

AV Mode Selection

You can view the images and listen to the sounds from the connected external devices in the AV1/AV2 mode respectively.

Touch "Source Button".



mode.

To switch Operation Screen ON, touch the center of touch panel or press [ENTER].

Note:

- You can set up the system so that the AV mode is not selected (source skip). (→ page 39) (AV set to NAVI INPUT is not skipped even if SOURCE SKIP is set to ON.)
- If no operation is performed for 10 seconds or **()** is touched, the operation buttons disappear.
- AV terminal is not used for the Panasonic car navigation system (available in future). Refer to <u>NAVI SETUP</u> for setting. (
 System Upgrade Guidebook)

Source Button



Settings

2
S
5
ш.

29

Preparation: To display menu in French, Execute MENU DISPLAY (Language setting). (> page 33)		
USER	User	
DISPLAY UNIT	Display adjustment	(⇒ page 32
CLOCK	Clock setting	(→ page 32
ID-CODE	ID Code Setting	(→ page 32
MEMORY CLEAR	Memory clearance	(→ page 33
OTHER	Other settings	(→ page 33
SCREEN	Screen	
DIMMER	Adjusting the brightness	(→ page 34
PICTURE	Display appearance	(→ page 34
	Audio	
	Sound setting	(→ nage 34
GRAPHIC-FO	Setting and adjusting of graphic equalizer	$(\rightarrow page 04)$
CS Auto	CS Auto setting	(-> page 04
SP SETUP	Setting of the absence/presence of each speaker	$(\rightarrow page 36)$
SPIEVE	Adjusting the output balance of each speaker	$(\rightarrow page 36)$
TIME ALIGNMENT	Delay time setting of each speaker	$(\rightarrow page 37)$
SOURCE LEVEL	Setting the AV1/AV2 input level	(→ page 37
CROSS OVER	Cut off frequency	(→ page 37
	Ννη	
	Language Setting	(→ nage 38
	Appearance of DVD image	
	DVD sound setting	(
MULTI-CH	Sound output selection	$(\rightarrow page 03)$
	·	
INPUT/OUTPUT	Input/output	
NAVI SETUP	Navigation setting	(*1)
CAMERA SETUP	Rear view camera setting	(*1)
SOURCE SKIP	Source skip	(⇒ page 39
INPUT SELECT	Input selection	(*1)
OUTPUT SELECT	Output selection	(*1)
H-F SETUP	Hands-free setting	(*1)
RADIO	Radio	
FM SETUP	Setting for FM stations	(⇒ page 40
AM SETUP	Setting for AM stations	(⇒ page 40

(*1) (*1)

(*1) Please refer to the System Upgrade Guidebook.

Setting for XM radio

Setting for Sirius satellite radio

XM SETUP

SIRIUS SETUP

MENU Operation		glish
(Example: DVD mode)	USER NAVI SETUP SCREEN CAMERA SETUP ALIDIO SOURCE SKIP DVD INPUT SELECT INPUT SELECT RADIO H-F SETUP	30
3 (Example: setting screen of "DISPLAY UNIT" → page 32) TILT +++ I 2 4	Touch desired setting.	
OPEN/CLOSE MANUAL AUTO Note: • The display returns to the previous status if there is no operation for setting menu.	Determines the setting and gets out of the menu. — more than 60 seconds after changing to the	



Settings (continued)



31

USER

CREEN AUDIO DVD INPUT/OUTPUT RADI

DISPLAY UNIT



OPEN/CLOSE (Monitor setting when power on)

AUTO : the monitor is opened automatically when turning ON ACC.

MANUAL : the monitor is not opened automatically.

Note:

The monitor position setting menu can also be displayed by pressing the [TILT] button on the main unit for more than 2 seconds. (
 page 17)

CLOCK

Clock setting

DISPLAY

(Clock display)

before adjusting the clock.)

(Hour adjustment)

(Minute adjustment)

: clock display ON ("12:00" is displayed

ON

OFF

: clock display OFF

default: OFF

default: MANUAL

HOUR ADJUST

< : puts back hour.

> : puts forward hour.

MINUTE ADJUST

: puts back minute.

: puts forward minute.

Note:

- To start the clock, touch/press [[SRC].
- Set the Daylight Saving Time manually.

default: HOUR ADJUST: 12 MINUTE ADJUST: 0

ID-CODE

ID Code Setting

Prior to operating this unit, it is advisable to assign a 4digit ID code for security. Once the ID code has been set, the unit cannot be operated if the main power supply is disconnected then re-connected. It is electronically locked so that a thief cannot use the stolen unit unless that person knows the code you have set.

The ID code operation must be performed only by the person to whom the unit belongs.

Generally, it is not necessary to enter the ID code each time when using the unit if it has not been disconnected from the main power supply (car battery).



default: none

How to set your ID code (for the first time)

- ① Enter a 4 digit ID code.
- 2 Enter the same 4 digit ID code again.

How to change your ID code

- ① Enter the preset (old) 4 digit ID code. If the wrong ID code is entered, a new ID code cannot be registered.
- 2 Enter a new 4 digit ID code.
- ③ Enter the new 4 digit ID code again.

How to cancel the known ID code

- ① Enter the preset (old) 4 digit ID code. If the wrong ID code is entered, it is not possible to cancel the ID code function.
- (2) Touch and hold (COMPLETED!" is displayed. The ID code cancelling procedure is completed. The unit now works without an ID code.

Note:

- Should your unit ever require service, cancel your ID code before sending for repair.
- The ID code setting cannot be eliminated even by the memory clear function.
- The inputted code is not displayed for your security.

\land Caution

 Record your registered ID code and keep it in a secure location. (Fill in the ID code memo (→ page 46).) If you forget it, you will be unable to use the unit. In case you forget the ID code, please consult your nearest Panasonic Servicenter.



Settings (continued)

English 33

USER SCREEN AUDIO DVD INPUT/OUTPUT RADIO (Display)	USER SCREEN AUDIO DVD INPUT/OUTPUT RADIO
DIMMER	SOUND SETUP
Adjusting the brightness	Sound Set Up
AUTO : automatically adjusted according to	SOUND EFFECT (Sound effect setting)
ambient light intensity.	THROUGH : no GEQ or CS Auto setting
	GEQ : goes to GEQ setting
Darker Brighter default: AUTO	CS Auto : goes to CS Auto setting
	default: THROUGH
PICTURE	GRAPHIC-EQ (Graphic-equalizer)
Display appearance	Graphic-equalizer
CONTRAST (Adjust the image contrast)	Six EQ presets are already provided at shipment in this unit. To recall a preset memory, select the correspon- ding preset buttons [1] to [6].
	1 : (Flat) flat frequency response
Increases the contrast between black and white.	2 : (Rock) speedy and heavy sound
	3 : (Pop) wide-ranged and deep sound
BRIGHT (Adjust the image brightness)	4 : (Vocal) clear sound
C : darkens.	5 : (Jazz) jazz-specific deep sound
> : lightens.	6 : (Club) club and disco-specific sound
COLOR (Adjust the image color depth)	You may set your own EQ or modify factory preset- tings in each memory button by following the instruc- tions below:
I lightens the depth of color on the display.	Adjusting level of each preset
deepens the depth of color on the display	The level of each of the 7 frequency bands can be
	adjusted.
	Touch/press m ////// / / / / / / /
TINT (Adjust the image tone or tint)	quency.
: emphasizes red in the color image.	Touch/press the same preset number for more than 2 seconds.
> : emphasizes green in the color image.	Frequency band 60 160 400 1 k 3 k 6 k 16 k (Hz) Adjustment range: -12 dB to +12 dB (in 2 dB steps) default: ±0 dB for each band
	 Note: The new level adjustment will overwrite the previous level adjustment. For resuming the factory settings, touch and hold []][][][][][][][][][][][][][][][][][][

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• To set the level to flat, touch and hold [[[[AT]]] (flat)] TruBass (TruBass Setting) for more than 2 seconds. • Expectable effects vary with the audio format to be FRONT TruBass (Applies to the front speakers) used, settings in the menu, and other factors. : more : less **REAR TruBass** (Applies to the rear speakers) > I : more : less **CS** Auto SUB-W TruBass (Applies to the Sub-woofer) CS Auto Setting : more SELECT (Customizing the setting) : less FOCUS (Raises the sound image) Setting range: off, +1 to +10 default: off FRONT FOCUS (Raises the front sound image) Note: > : more TruBass[®] TruBass is an audio technology to which the technique of < Iess bass sound reproduction used in pipe organs is electrically applied, and in which an equalizer is not used at all REAR FOCUS (Raises the rear sound image) and bass sound from the speakers to be used is richly reproduced. > : more < : less (Adjusts the SRS effect) Mixing CENTER FOCUS (Raises the central sound image) FRONT TO REAR Mixing (Adjusts the SRS effect (front) on rear speakers) : more : more : less : less Setting range: off, +1 to +10 default: off **CENTER TO REAR Mixing** (Adjusts the SRS effect (center) Note: on rear speakers) FOCUS[®] Focus is an audio technology that moves the sound : more image of playing sound vertically to reproduce the sounds of instruments and voices clearly. : less Setting range: off, +1 to +10 default: +5

Settings (continued)

(AUDIO continued)

English	(AUDIO continued)	1
35	SP SETUP (Speaker set up)	PHASE (Phase setting)
00	Setting the absence/presence and size of each speaker	0° : subwoofer phase 0 degree
	FRONT (Front speaker setting)	180° : subwoofer phase 180-degree inverted
	SMALL : for small speakers, or when bass playback is not possible	• This setting is feasible only when <u>SUB-W</u> is set to <u>YES</u> .
	LARGE : for large speakers, when bass playback is possible (at least 100 Hz or lower)	default: 0°
	CENTER (Center speaker setting)	SF LEVEL (Speaker level) Adjusting the output balance of each speaker
	NONE : when not using a center speaker	FRONT L (Left front speaker output bal-
	SMALL : for small speakers, or when bass playback is not possible	Image: down, image: up
	LARGE : for large speakers, when bass playback is possible (at least 100 Hz or lower)	CENTER (Center speaker output bal- ance)
	default: <u>NONE</u> * A center speaker (option, EAB-CF2 recommended) is required.	FBONT B (Right front speaker output
	SUR (Surround speaker setting)	i down, i up
	NONE : when not using a surround speaker	R • SUR (Right surround speaker output balance)
	SMALL : for small speakers, or when bass playback is not possible	: down, : up
	LARGE : for large speakers, when bass playback is possible (at least 100 Hz or lower)	L • SUR (Left surround speaker output balance)
	default: LARGE	: down, : up
	SUB - W (Subwoofer speaker setting)	SUB - W (Subwoofer speaker output balance)
	YES : when using a subwoofer	: down, : up
	NO : when not using a subwoofer	Setting range: -10 dB to +10 dB (1 dB steps) default: ±0 dB for all speakers
	* A subwoofer (option, CJ-SW3003 recommended) is required. A power amplifier (option) is also required for connecting a subwoofer.	 If the speaker setting is <u>NONE</u> or <u>NO</u> for a speaker, the test signal is not output and that speaker cannot be selected. Turn rotary volume controller or press [+] or [-]

(VOL) to adjust the volume of the test signal.

Note:

CQ-VD7005U

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• While the private mode is active, only FRONT can be adjusted.



Settings (continued)

DVD

English

LANGUAGE

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Language Setting MENU (DVD menu language) ENG l : Enalish FRA : French SPA : Spanish OTHER |: other language. Input the language code. (⇒ page 49)



Note:

- A disc supporting closed captioning and subtitles may overlap each other on the screen. In this case, turn the subtitle off.
- ENG : English FRA : French SPA : Spanish
- OTHER : other language. Input the language code. (⇒ page 49)

(Audio language)

default: ENG

default: ENG

AUDIO

Note:

 These adjustments being executed, playback will start from the beginning of a disc.

ENG	: English
FRA] : French

SPA : Spanish

OTHER : other language. Input the language code.

(⇒ page 49)

default: ENG

OFF



: inactivates angle mark.

default: ON

INPUT/OUTPUT **DVD SOUND NAVI SETUP** (Navigation set up) DVD sound setting (→ System Upgrade Guidebook) (5.1 channel listening in Dolby PRO LOGIC CAMERA SETUP surround sound) (→ System Upgrade Guidebook) ON : activates Pro Logic. SOURCE SKIP OFF : inactivates Pro Logic. Source skip default: OFF AV1 SKIP (AV1 skip) Note: • This setting is enabled only in the DVD/VCD/CD player If AV1 is not used, the AV1 mode is skipped when changmode. ing the mode. • ON selection in some audio settings may disable : skips AV1 audio output from the subwoofer. ON OFF : does not skip **DOWN MIX** (To use the down mix function, specify the type.) default: OFF Lo/Ro : simple stereo down mix AV2 SKIP (AV2 skip) (Lo = Left only, Ro = Right only) If AV2 is not used, the AV2 mode is skipped when chang-Lt/Rt : surround element decodable down mix ing the mode. (Lt = Left total, Rt = Right total) Note: ON : skips AV2 This function is available only when "Dolby Digital" or "dts" source is playing and when sound comes out **OFF** : does not skip only from the front speakers adjusted with SP SETUP. default: OFF Note: default: Lt/Rt When external devices are connected to this unit without involving the Expansion Module (CY-EM100U, option), AV2 SKIP is not enabled because the con-DR COMP (Dynamic Range Compression) nected external devices are identified as AV2. Maintaining the ambience even while listening at a low volume level INPUT SELECT (→ System Upgrade Guidebook) Compression style selecting STD : DR COMP ON OUTPUT SELECT MIN : made with the greatest compression, (→ System Upgrade Guidebook) roughly equivalent to a TV broadcast. **H-F SETUP** OFF : DR COMP OFF (→ System Upgrade Guidebook) default: OFF **MULTI-CH** (Multiple channel) Sound output of Dolby Digital 2 ch. from all speakers ON : changes sound from 2 ch. to 5.1 ch. OFF : keeps the source output 2 ch. sound.

default: OFF

English

Settings (continued)

English

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XM SETUP

(→ System Upgrade Guidebook)

SIRIUS SETUP

(➡ System Upgrade Guidebook)

Other Settings

🗅 Aspect Ratio

Default: NORMAL Mode: 4 types

Press and hold **[ASP]** on the main unit to change the aspect ratio as follows.



NORMAL

FULL

ZOOM

JUST



- The conventional display image has a 4 to 3 ratio of horizontal to vertical.
- In this case, a blank area remains on the right and left sides of the display.
- The screen is extended horizontally as a whole to the aspect ratio of 16 to 9.
- The extension ratio is the same at any point of the screen.
- The screen is fully extended at the normal aspect ratio of 4 to 3.
- The top and bottom of the screen are slightly cut.
- The screen is extended horizontally to the aspect ratio of 16 to 9.
- The extension ratio increases toward the right and left ends of the screen.

Note:

- This adjustment is common to video mode.
- You cannot change the aspect in the menu screen and a screen in the CD, MP3/WMA, radio and CD changer mode. These are fixed to "FULL" as well as a Navigation Image.
- When the rear view camera is in operation with the transmission gear shift in the reverse position, the image is shown on the "FULL" screen only.
- In some cases, the picture looks different from the original one due to your selection of aspect.

\land Caution

- This is to remind you that compression or extension of the screen using the aspect ratio (screen mode) changing function of this product for commercial purpose of profit making or viewing/listening by the public could infringe on the rights of the author protected by the copyright law.
- If you expand normal picture (4 to 3) by using "JUST", "ZOOM" or "FULL" aspect to the full of the screen, you might not see the periphery of the picture, or you might see a distorted picture. Therefore, use the "NORMAL" mode to see the original picture as the author intended it.

🗅 Private Mode

You can mute the sounds from the rear speakers if necessary. Activation of the private mode allows you to enjoy the front monitor and rear monitor (e.g. CY-VHD9401U) independently with different sources at the same time.

Default: Private mode off



"P • MODE" indicator lights when the Private Mode is activated.

Press and hold **[ASP]** on the main unit for more than 2 seconds to activate the private mode function or inactivate it in turn.

Note:

- Be sure to set to OFF when you do not use the private mode.
- It is not possible to choose and set the <u>CS Auto</u> (CS Auto Setting) (→ page 35) and <u>TIME ALIGNMENT</u> (speaker delay) (→ page 37) on the sound setting menu while private mode is active.



It is recommended to use optional Over-head Monitor (CY-VHD9401U) and headphones supplied to CY-VHD9401U.

Troubleshooting

If You Suspect Something Wrong

Check and take steps as described below.

If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Servicenter. The product should be serviced only by qualified personnel. Please refer checking and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking. **Never take measures especially those other than indicated by** *italic* letters in "Possible Solution" described below because those are too dangerous for users to handle themselves.

A Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Common

Problem	Possible cause Possible solution	
No power to the unit	 The power cord (battery, power and ground) is connected in the wrong way. → Check the wiring. Fuse blows out. → Eliminate the cause of fuse blowout and replace the fuse with new one. Consult your dealer. 	
Sound is not generated.	 MUTE is set to ON. → Set MUTE to OFF. The wiring of speaker lines is not correct, or a break or poor contact arises. → Check the wiring in accordance with the wiring diagram. (Installation Instructions) 	
Noise	 There is an electromagnetic-wave generator such as a cellular phone near the unit or its electrical lines. ★ Keep the electromagnetic-wave generator such as a cellular phone away from the unit and the wiring of the unit. In case noise cannot be eliminated due to the wiring harness of the car, consult your dealer. The contact of the ground lead is poor. ★ Make sure that the ground lead is connected to an unpainted part of the chassis securely. 	
Noise is made in step with engine revolutions.	Alternator noise comes from the car. →Change the wiring position of the ground lead. →Mount a noise filter.	
Some operations are not executable.	Some operations are not executable in particular modes such as menu mode → Read the operating instructions carefully and cancel the mode. If the unit is still out of order, consult your dealer.	
No sound from speaker(s)	There is a break, a short circuit, poor contact or wrong wiring regarding the speaker wiring. → Check the speaker wiring.	







inglish



Troubleshooting (continued)

🗅 Error Display Messages

CD/MP3/WMA/DVD/VCD (Video CD)

Display	Possible cause Possible solution	
NON PLAYABLE DISC	Disc is dirty, or is upside down. → Check disc.	
	→ Check disc.	
MECHANISM ERROR	No operation by some cause. → Press [▲]. If failure persists, press the reset switch. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicenter.	
FILE ERROR	The type of the file that is selected is not supported. \Rightarrow <i>Check disc.</i>	
PROTECTED	A WMA file can be copyrighted. → The file protected by copyright is not playable.	
NO DISC	No disc is in the player. → Insert disc into the disc slot.	
REGION ERROR	An attempt was made to play a disc with a region number other than "1" or "ALL". → Press [▲] and check the disc.	

Note:

• There may be cases when the disc numbers affected by an error are displayed before "NON PLAYABLE DISC".

\Box In case you forget the ID code...

In case you forget the ID code, please consult your nearest Panasonic Servicenter.

ID code memo

Copy the memo below, fill in the ID code, and keep it in a secure location.



Product Servicing

If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Servicenter. The product should be serviced only by a qualified technician.

Replacing the Fuse

Use fuses of the same specified rating (**15 A**). Using different substitutes or fuses with higher rating, or connecting the product directly without a fuse, could cause fire or damage to this unit.

If the replacement fuse fails, contact your nearest Panasonic Servicenter for service.

If the Unit Begins to Malfunction...

Reset switch

Insert a hard, slender stick into the hole and push the switch.

Important

Push the switch only when the unit fails to operate with any buttons. (Stored settings and adjustments are not cleared.)

If the unit fails to return to normal condition, call the nearest Panasonic Servicenter and ask for repairs.



Note:

• If the ID-CODE has been already set, you will be asked to enter the ID-CODE right after the unit is restarted.

Maintenance

\Box Caution on Cleaning



Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

Cleaning this Unit

When the unit is dirty, wipe the surface of the display using the Wiping Cloth (supplied).

Cleaning without the supplied cloth

- Moisten the soft cloth in dishwashing soap diluted with water and wring well.
- Wipe lightly. Go over the same surface with a dry cloth.



Note:

- Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.
- Do not scratch the screen with your nails or other hard objects. The resulting scratches or marks will obscure the images.

\land Caution

• If water drops or similar wet substances get inside the monitor, it may cause a malfunction.

Notes on Discs

How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend disc.
- When not in use, keep disc in the case.

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Do not use discs that fit any of the descriptions given below. Using these discs may damage the discs or cause the unit to malfunction.

Special discs in a shape which is not round





Partly or wholly transparent disc





Wholly transparent disc*

*Wholly semi-transparent disc may not be played back.

Discs with adhered labels, etc. on them





Disc with adhered stickers or tape

Labels created by a printer



Disc accessories (stabiliz-

Protective films or sheets

Damaged or deformed discs



Shoddily made discs



Discs with burrs Please remove the burrs before use.



ers, etc.)

Discs with cracks. scratches or parts missing

Disc insert

The surfaces of new discs tend to be slippery. Therefore, when using such a disc for the first time, it may not load satisfactorily even when it has been inserted into the unit. At a time like this, insert the disc into the unit as far as it will go until it is loaded properly.

- When inserting a disc into or ejecting and removing it from the unit, insert it straight in or eject and remove it straight out in parallel with the unit. Otherwise, the disc may be scratched or marked in the process.
- When inserting a disc, do not put one disc on another. Failure to observe this may cause the discs to be jammed.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- On seats and dashboards

Disc cleaning

Use a dry, soft cloth to wipe from the center outward. Do not attach any seals or labels to your discs. Do not write on the disc label in a heavy pen or ballpoint pen.





<Wrong>

Notes on CD-Rs/RWs, **DVD-Rs/RWs**

- You may have trouble playing back some CD-R/RW, DVD-Rs/RWs discs recorded on CD/DVD recorders (CD-R/RW, DVD-Rs/RWs drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW, DVD–Rs/RWs discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage and make playback impossible.
- The unit may not successfully playback a CD-R/RW, DVD-Rs/RWs that was made by the combination of writing software, a CD/DVD recorder (CD-R/RW, DVD-Rs/RWs drive) and a disc if they are incompatible with one another.
- This player does not play CD-R/RW, DVD-Rs/RWs discs if the session is not closed.
- Be sure to observe the handling instructions of CD-R/RW, DVD-Rs/RWs discs.
- This player does not play CD-R/RW discs which contain other than CD-DA or MP3/WMA data.

Language Code List



DVD language menu (→ page 38)

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6589	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian

In "OTHER" Cases... (→ page 38)

Input the four digit language code pressing the buttons (2) to (2). Touch (1993) to determine.

Note:

• Setting is finished and the display returns to the main menu.

• For retrying selection during number entry, touch/press [] /[RETURN].

Code	Language Name
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian, Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi
8076	Polish
8083	Pashto, Pushto
8084	Portuguese
8185	Quechua

Code	Language Name
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

Definition of Terms

Dolby Digital

This fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback. The number of channels that are recorded depends on the software. (1 to 5.1 channels)

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

Dolby Pro Logic

This format records signals from four channels [Front Left (L), Front Right (R), Center (C), and Monaural Surround (S)] in two channels, decodes those channels through a Dolby Pro Logic decoder, and then outputs the resulting signals in four channels.

dts

This format requires more data than Dolby Digital, and provides higher quality surround playback. Similar to Dolby Digital, this fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback.

Interactive DVD

An interactive DVD is DVD software which includes multiple angles, multiple plot endings, etc.

Letterbox screen

This refers to a screen on which the playback picture of wide-screen DVDs or VCD (Video CD)s appears with black bands running along the top and bottom.

LPCM (Linear PCM audio)

In this format, the audio signal is converted to digital data and recorded in two channels without compression. Because the capacity of a DVD disc is large, it can store more data with better accuracy than a CD.

Pan & Scan screen

This refers to a screen on which the playback picture of wide-screen DVDs or VCD (Video CD)s is cut off at the left and right sides.

Playback control (VCD (Video CD))

If the VCD (Video CD) has "With Playback Control" or others written on the disc surface or on the jacket, the scenes or information to be viewed (or listened to) can be selected interactively with the screen by looking at the menu shown on the screen. In these instructions, playback using the menu screen is referred to as the "menu play" for video CDs. This player supports Video CDs with playback control.

Title, Chapter (DVD)

DVDs are divided into some large sections (titles) or some small sections (chapters). Each section is numbered; these numbers are called "Title number" or "Chapter number".

Title 1			Title 2	2
Chapter 1	Chapter 2		Chapter 1	

Track (Video CD/CD)

Video CDs or CDs are divided into some sections (tracks). Each section is numbered; these numbers are called "Track number".

Track 1 Track 2	Track 3	Track
-----------------	---------	-------

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

"This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited."

Specifications

General

 Power supply 	: 12 V DC (11 V – 16 V), test voltage 14.4 V, negative
• Current consumption	ground : Less than 10 A (during disc
 Maximum power output Power output 	playback) : 50 W x 4 ch : 18 W x 4 ch
Compatible speaker	(1 kHz, 1 %, 4 Ω)
impedance	:4Ω
 Video input signal 	: Composite video signal, 1.0 Vp-p (75 Ω)
 Audio input sensitivity 	: 2 Vrms
• Video output signal	: Composite video signal, 1.0 Vp-p (75 Ω)
 Pre-Amp output voltage 	: 2 Vrms
• Pre-Amp output impedance	: Less than 600 Ω
• Dimensions (W x H x D)	: 178 x 50 x 165 mm
	{7" x 1 ¹⁵ / ₁₆ " x 6 ¹ / ₂ "}
 Weight 	: 2.4 kg {5 lbs. 5 oz.}
FM steren radio	

: 87.9 MHz - 107.9 MHz • Frequency range : 12.2 dBf Usable sensitivity Stereo separation : 40 dB (1 kHz) • S/N ratio : 63 dB

AM radio

• Frequency range

: 530 kHz – 1 710 kHz

 Usable sensitivity Image rejection ratio

: 25 dB/µV

: 50 dB

Audio section

 Output voltage/impedar 	1Ce: 2 Vrms/600 Ω
 Frequency characteristic 	CS
(when "LARGE" is seled	cted)
Front L/R, Center, Rear	
(surround) L/R	: 20 Hz – 20 kHz (±1 dB)
Delay time	
 Dolby Digital 	
Center	: 0 – 5 ms
Rear (surround) L/R	: 0 – 15 ms
Dolby Pro Logic	
Rear (surround) L/R	: 15 – 30 ms
Distortion	
Front L/R	
(1 kHz, 0 dB, PCM input): 0.01 %
Dynamic range	: 96 dB (during CD playback)
 S/N ratio 	: 100 dB (during CD playback)
Monitor	
women	
 Storage temperature 	
range	: – 20 °C – 80 °C
	{− 4 °F −176 °F}
 Liquid crystal panel 	: 7" wide
 Screen dimensions 	
$(W \times H \times D)$: 154 x 87 x 177 mm
	$\{6^{1}/16'' \times 3^{7}/16'' \times 6^{15}/16''\}$
 Number of pixels 	: 336 960 pixels (234 vertical
	x 480 horizontal x 3)
 Valid pixel ratio 	: Over 99.99%
 Display method 	: Transparent color filter for-
	mat
 Drive method 	: IFI (Ihin Film Transistor)

• Light source

active matrix format : Internal light (Built-in small fluorescent lamp)

Above Specifications comply with EIA standards.

Power Output: 18 W RMS x 4 Channels at 4 Ω and \leq 1% THD+N Signal to Noise Ratio: 78 dBA (reference: 1 W into 4 Ω)



Note:

- Specifications and the design are subject to modification without notice due to improvements in technology.
- Some figures and illustrations on this manual may be different from your product.

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